

# SEQUENCE LISTING

<110> Armour, Christopher  
Castle, John  
Garrett-Engle, Philip  
Johnson, Jason

<120> ALTERNATIVELY SPLICED ISOFORMS OF HUMAN PHKA2

<130> RS0204Y

<150> US 06/408,058

<151> 2002-09-03

<150> US 60/431,474

<151> 2002-12-05

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<170> PatentIn version 3.2

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Glu Val Ala Phe Ile Gln Asn Leu Val Phe Tyr Ile Glu Ala Ala Tyr  
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Gly Ile Pro Glu Leu Asn Ala Ser Ser Val Gly Met Ala Lys Ala Ala  
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Lys Ser Val Ile His Val Leu Pro Asp Glu Val Glu His Cys Gln Ser  
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Ile Leu Phe Ser Met Leu Pro Arg Ala Ser Thr Ser Lys Glu Ile Asp  
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Lys Gln Leu Thr Val Gly Leu Pro Pro Glu Pro Arg Glu Lys Ile Ile  
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Ala Lys Val Glu Lys Phe Lys His Thr Gln Ser Thr Lys Asp Ser Leu  
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His Ala Lys Tyr Asn Thr Ala Thr Cys Gly Thr Val Val Gly Asp Asp  
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Gln Trp Gly His Leu Gln Val Asp Ala Thr Ser Leu Phe Leu Leu Phe  
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Lys Ser Val Ile His Val Leu Pro Asp Glu Val Glu His Cys Gln Ser  
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Ser Val Lys Pro Asp Val Val Val Gln Val Thr Val Leu Ala Glu Asn  
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Arg Pro Tyr Arg His Ile Gly Val Leu Gly Thr Ser Lys Leu Tyr Val  
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His Ala Lys Tyr Asn Thr Ala Thr Cys Gly Thr Val Val Gly Asp Asp  
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Gln Trp Gly His Leu Gln Val Asp Ala Thr Ser Leu Phe Leu Leu Phe  
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Lys Val Ala Asp Tyr Gly Met Trp Glu Arg Gly Asp Lys Thr Asn Gln  
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Lys Ser Val Ile His Val Leu Pro Asp Glu Val Glu His Cys Gln Ser  
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Val Pro Glu Leu Tyr Ala Val Pro Pro Asn Lys Val Asp Glu Glu Tyr  
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Lys Asn Pro His Thr Val Asp Arg Val Pro Met Gly Lys Val Pro His  
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Ser Val Lys Pro Asp Val Val Val Gln Val Thr Val Leu Ala Glu Asn  
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Asn His Ile Lys Asp Leu Leu Arg Lys His Gly Val Asn Val Gln Ser  
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Ile Ala Asp Ile His Pro Ile Gln Val Gln Pro Gly Arg Ile Leu Ser  
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His Ile Tyr Ala Lys Leu Gly Arg Asn Lys Asn Met Asn Leu Ser Gly  
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Arg Pro Tyr Arg His Ile Gly Val Leu Gly Thr Ser Lys Leu Tyr Val  
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His Phe Tyr Leu Ala Leu Asp Asn Glu Met Ile Val Glu Met Leu Arg  
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Ile Glu Leu Ala Tyr Leu Cys Thr Cys Trp Arg Met Thr Gly Arg Pro  
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 Thr Thr Ser Phe Tyr Thr Tyr Leu Thr Phe Leu Asp Pro Asp Cys Asp  
 65 70 75 80  
 Glu Lys Leu Phe Asp Asn Ala Ser Glu Gly Thr Phe Ser Pro Asp Ser  
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 Asp Ser Asp Leu Val Gly Tyr Leu Glu Asp Thr Cys Asn Gln Glu Ser  
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 115 120 125  
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 Val Phe Ser Ala Ile His Ser Thr Arg Asp Ile Leu Ser Val Met Ala  
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 Lys Ala Lys Gly Leu Glu Val Pro Phe Val Pro Met Thr Leu Pro Thr  
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 Lys Val Leu Ser Ala His Arg Lys Ser Leu Asn Leu Val Asp Ser Pro  
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 Asp Asp His Gly Asp Val Asp Cys Glu Lys Leu Val Glu Gln Leu Lys  
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 Val Ile Lys Gly Pro Ser Trp Asp Thr Asn Leu Ser Gly Gln His Gly  
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Val Thr Val Gln Asn Leu Leu Gly Glu Leu Tyr Gly Lys Ala Gly Leu  
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Asn Gln Glu Trp Gly Leu Ile Arg Tyr Ile Ser Gly Leu Leu Arg Lys  
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Lys Gln Leu Thr Val Gly Leu Pro Pro Glu Pro Arg Glu Lys Ile Ile  
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Ser Ala Pro Leu Pro Pro Glu Glu Leu Thr Lys Leu Ile Tyr Glu Ala  
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Ser Gly Gln Asp Ile Ser Ile Ala Val Leu Thr Gln Glu Ile Val Val  
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Tyr Leu Ala Met Tyr Val Arg Ala Gln Pro Ser Leu Phe Val Glu Met  
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Leu Arg Leu Arg Ile Gly Leu Ile Ile Gln Val Met Ala Thr Glu Leu  
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Gly Lys Glu Phe Gly Val Glu Arg Ser Val Arg Pro Ile His Ser Ser  
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Thr Ser Ser Pro Thr Ile Ser Ile His Glu Val Gly His Thr Gly Val  
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His Ile Gly Trp Gly Glu Arg Gln Gly Gln Trp Leu Arg Arg Arg Arg  
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Thr Glu Met Thr Ser Ile Gly Gly Ile Ile His Val Asp Gln Ile Val  
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Gln Met Ala Ser Gln Leu Phe Leu Gln Asp Gln Val Ser Ile Gly Ala  
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Met Asp Thr Leu Glu Lys Asp Gln Ala Thr Gly Ile Cys His Phe Phe  
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Tyr Ser Ile Leu Ala Val Trp Gly Leu Gly Met Ala Tyr Arg Lys Asn  
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Ala Asp Arg Asp Glu Asp Lys Ala Lys Ala Tyr Glu Leu Glu Gln Asn  
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Ala Lys Val Glu Lys Phe Lys His Thr Gln Ser Thr Lys Asp Ser Leu  
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Gln Trp Gly His Leu Gln Val Asp Ala Thr Ser Leu Phe Leu Leu Phe  
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Leu Ala Gln Met Thr Ala Ser Gly Leu Arg Ile Ile Phe Thr Leu Asp  
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Glu Val Ala Phe Ile Gln Asn Leu Val Phe Tyr Ile Glu Ala Ala Tyr  
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Lys Val Ala Asp Tyr Gly Met Trp Glu Arg Gly Asp Lys Thr Asn Gln  
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Gly Leu Leu Ser Ile Ile Ser Phe Pro Ala Phe Ala Val Glu Asp Val  
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Glu Asn Ile Glu Cys Glu Trp Pro Val Phe Trp Thr Tyr Phe Ile Ile  
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Asp Gly Val Phe Ser Gly Asp Ala Val Gln Val Gln Glu Tyr Arg Glu  
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Ala Leu Glu Gly Ile Leu Ile Arg Gly Lys Asn Gly Ile Arg Leu Val  
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Pro Glu Leu Tyr Ala Val Pro Pro Asn Lys Val Asp Glu Glu Tyr Lys  
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Asn Pro His Thr Val Asp Arg Val Pro Met Gly Lys Val Pro His Leu  
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Trp Gly Gln Ser Leu Tyr Ile Leu Ser Ser Leu Leu Ala Glu Gly Phe  
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Leu Ala Ala Gly Glu Ile Asp Pro Leu Asn Arg Arg Phe Ser Thr Ser  
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Val Lys Pro Asp Val Val Val Gln Val Thr Val Leu Ala Glu Asn Asn  
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His Ile Lys Asp Leu Leu Arg Lys His Gly Val Asn Val Gln Ser Ile  
 420 425 430

Ala Asp Ile His Pro Ile Gln Val Gln Pro Gly Arg Ile Leu Ser His  
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Ile Tyr Ala Lys Leu Gly Arg Asn Lys Asn Met Asn Leu Ser Gly Arg  
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Pro Tyr Arg His Ile Gly Val Leu Gly Thr Ser Lys Leu Tyr Val Ile  
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Phe Tyr Leu Ala Leu Asp Asn Glu Met Ile Val Glu Met Leu Arg Ile  
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Phe Gly Gly Ala Arg Val Lys Leu Gly Asn Leu Ser Glu Phe Leu Thr  
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Lys Leu Phe Asp Asn Ala Ser Glu Gly Thr Phe Ser Pro Asp Ser Asp  
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Asp Glu Leu Asp His Tyr Ile Asn His Leu Leu Gln Ser Thr Ser Leu  
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Arg Ser Tyr Leu Pro Pro Leu Cys Lys Asn Thr Glu Asp Arg His Val  
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Phe Ser Ala Ile His Ser Thr Arg Asp Ile Leu Ser Val Met Ala Lys  
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Ala Lys Gly Leu Glu Val Pro Phe Val Pro Met Thr Leu Pro Thr Lys  
675 680 685

Val Leu Ser Ala His Arg Lys Ser Leu Asn Leu Val Asp Ser Pro Gln  
690 695 700

Pro Leu Leu Glu Lys Val Pro Glu Ser Asp Phe Gln Trp Pro Arg Asp  
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Asp His Gly Asp Val Asp Cys Glu Lys Leu Val Glu Gln Leu Lys Asp  
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Cys Ser Asn Leu Gln Asp Gln Ala Asp Ile Leu Tyr Ile Leu Tyr Val  
740 745 750

Ile Lys Gly Pro Ser Trp Asp Thr Asn Leu Ser Gly Gln His Gly Val  
755 760 765

Thr Val Gln Asn Leu Leu Gly Glu Leu Tyr Gly Lys Ala Gly Leu Asn  
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Gln Glu Trp Gly Leu Ile Arg Tyr Ile Ser Gly Leu Leu Arg Lys Lys  
785 790 795 800

Val Glu Val Leu Ala Glu Ala Cys Thr Asp Leu Leu Ser His Gln Lys  
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Ala Pro Leu Pro Pro Glu Glu Leu Thr Lys Leu Ile Tyr Glu Ala Ser  
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Gly Gln Asp Ile Ser Ile Ala Val Leu Thr Gln Glu Ile Val Val Tyr  
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Leu Ala Met Tyr Val Arg Ala Gln Pro Ser Leu Phe Val Glu Met Leu  
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Arg Leu Arg Ile Gly Leu Ile Ile Gln Val Met Ala Thr Glu Leu Ala  
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Arg Ser Leu Asn Cys Ser Gly Glu Glu Ala Ser Glu Ser Leu Met Asn  
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Leu Ser Pro Phe Asp Met Lys Asn Leu Leu His His Ile Leu Ser Gly  
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Lys Glu Phe Gly Val Glu Arg Ser Val Arg Pro Ile His Ser Ser Thr  
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Ser Ser Pro Thr Ile Ser Ile His Glu Val Gly His Thr Gly Val Thr  
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Lys Thr Glu Arg Ser Gly Ile Asn Arg Leu Arg Ser Glu Met Lys Gln  
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Met Thr Arg Arg Phe Ser Ala Asp Glu Gln Phe Phe Ser Val Gly Gln  
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Ala Ala Ser Ser Ser Ala His Ser Ser Lys Ser Ala Arg Ser Ser Thr  
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Pro Ser Ser Pro Thr Gly Thr Ser Ser Ser Asp Ser Gly Gly His  
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Pro Gln Pro Glu Tyr Arg Gln Leu Leu Val Glu Ala Ile Met Val  
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Ile His Val Asp Gln Ile Val Gln Met Ala Ser Gln Leu Phe Leu  
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Gln Ala Thr Gly Ile Cys His Phe Phe Tyr Asp Ser Ala Pro Ser  
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